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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/808,777	03/24/2004	Seung Min Lee	2080-3242	6072
7590			EXAM	INER
JONATHAN Y. K LEE, HONG, DEC	ANG, ESQ. GERMAN, KANG & S(	CHMADEKA	QUARTERM	AN, KEVIN J
14th Floor	moot .		ART UNIT	PAPER NUMBER
801 S. Figueroa Street Los Angeles, CA 90017-5554			2879	
SHORTENED STATUTORY PI	ERIOD OF RESPONSE	MAIL DATE	DELIVER	Y MODE
3 MONTI	48	04/23/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)					
Office Antique Commence	10/808,777	LEE ET AL.					
Office Action Summary	Examiner	Art Unit					
	Kevin Quarterman	2879	_				
The MAILING DATE of this communication apporation for Reply	ears on the cover sheet with the c	orrespondence address	,				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 6(a). In no event, however, may a reply be tim ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	I.  lely filed  the mailing date of this communicat  D (35 U.S.C. § 133).					
Status		•					
1)⊠ Responsive to communication(s) filed on 24 Ja	nuary 2007.						
·= · · · · · · · · · · · · · · · · · ·	action is non-final.						
3) Since this application is in condition for allowan	' <del>_</del>						
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.					
Disposition of Claims							
4)⊠ Claim(s) <u>15-28</u> is/are pending in the application	<b>1.</b>		,				
4a) Of the above claim(s) is/are withdraw							
5)⊠ Claim(s) <u>15-27</u> is/are allowed.							
6)⊠ Claim(s) <u>28</u> is/are rejected.							
7)⊠ Claim(s) <u>19</u> is/are objected to.							
8) Claim(s) are subject to restriction and/or	election requirement.						
Application Papers							
9) The specification is objected to by the Examiner	ſ.						
10)⊠ The drawing(s) filed on 24 March 2004 is/are: a	•	by the Examiner.					
Applicant may not request that any objection to the o	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correcti	on is required if the drawing(s) is ob	jected to. See 37 CFR 1.12	1(d).				
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.					
Priority under 35 U.S.C. § 119							
12)⊠ Acknowledgment is made of a claim for foreign a)⊠ All b)□ Some * c)□ None of:	priority under 35 U.S.C. § 119(a	)-(d) or (f).					
<ol> <li>Certified copies of the priority documents</li> </ol>	s have been received.						
<ol><li>Certified copies of the priority documents</li></ol>	s have been received in Applicati	on No					
<ol><li>Copies of the certified copies of the prior</li></ol>	ity documents have been receive	ed in this National Stage					
application from the International Bureau	• • • • • • • • • • • • • • • • • • • •						
* See the attached detailed Office action for a list of	of the certified copies not receive	ed.					
Attachment(s)	_						
Notice of References Cited (PTO-892)	4) 🔲 Interview Summary Paper No(s)/Mail Da						
2)  Notice of Draftsperson's Patent Drawing Review (PTO-948) 3)  Information Disclosure Statement(s) (PTO/SB/08)	5) Notice of Informal P						
Paper No(s)/Mail Date	6) Other:						

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#### **DETAILED ACTION**

#### Response to Amendment

 Applicant's amendment and remarks received 24 January 2007 have been entered.

# Claim Objections

2. Claim 19 is objected to because of the following informalities: The term "groves" in the 5<sup>th</sup> line of the claim appear to be misspelled—i.e., should be *grooves* instead.

Appropriate correction is required.

# Claim Rejections - 35 USC § 112

- 3. The following is a quotation of the first paragraph of 35 U.S.C. 112:
  - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 4. Claim 28 is rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. Newly added independent claim 28 includes a limitation that "each of the plurality of patterns is the same size as that of adjacent patterns." This feature is not described in applicant's original disclosure and the drawings do not clearly teach this feature, since there is no evidence that the drawings are drawn to scale.

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# Allowable Subject Matter

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5. Claims 15-27 are allowed.

- 6. The following is a statement of reasons for the indication of allowable subject matter: Claims 15-18 were allowed in the previous office action. The reasons are repeated in this office action.
- 7. Regarding independent claim 15, the prior art of record neither shows or suggests a plasma lighting bulb comprising, in addition to other limitations of the claim, a plurality of hexagonal patterns formed on an outer surface of the bulb due to an alignment of a plurality of grooves having a predetermined depth. Due to their dependency upon independent claim 15, claims 16-18 are also allowable for the same reason.
- 8. Regarding independent claim 19, the prior art of record neither shows or suggests a plasma lighting bulb comprising, in addition to other limitations of the claim, a plurality of grooves formed on an inner or outer surface of a bulb, wherein the plurality of grooves forms a plurality of polygon patterns. Due to their dependency upon independent claim 19, claims 20-27 are also allowable.
- 9. As allowable subject matter has been indicated, applicant's reply must either comply with all formal requirements or specifically traverse each requirement not complied with. See 37 CFR 1.111(b) and MPEP § 707.07(a).

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### Response to Arguments

10. Applicant's arguments received 24 January 2007 with respect to independent claim 19 have been fully considered and are persuasive. The rejection of claims 19-27 has been withdrawn.

#### Conclusion

- 11. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).
- 12. A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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#### **Contact Information**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin Quarterman whose telephone number is (571) 272-2461. The examiner can normally be reached on M-TH (7-5:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimesh Patel can be reached on (571) 272-2457. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Kevin Quarterman Examiner Art Unit 2879

kq / 2007

MARICELI SANTIAGO PRIMARY EXAMINER